

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

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OFFICE OF RESTICIDES AND TOXIC

### MEMORANDUK

SUBJECT:

2,4-Dichlorophenoxyacetic Acid: Generic

Submission as Required in the 2,4-D Registration

Standard.

FROM:

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Section II, Toxicology Branch II Health Effects Division (H7509C)

TO:

W. Waldrop/ J. Coombs Product Manager (71) Reregistration Division

THRU:

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4/2.4/92 K.Clark Swentzel, Section Head

Health Effects Division (H7509C)

Toxicology Branch II

Health Effects Division (H7509C)

Health Effects Division (H/2090)
and
Marcia van Gemert, Ph.D., Chief Muanquet 4/24/93

PROJECT IDENTIFICATIONS: Submission 8414723 Case No. \$18706

Casvell No. 315 HED Project No. 2-1863

ACTION REQUESTED: Review MRID No. 422327-01 for Guideline 81-5; Primary Dermal Irritation Study in Rabbits

RESPONSE: As detailed in the attached Data Evaluation Report, the dermal irritation potential of technical grade 2,4-dichlorophenoxyacetic acid [96.7%], was evaluated in male and female New Zealand White rabbits. The test material was shown to be a nonirvitant in the rabbit skin.

### TOXICITY CATEGORY: IV

Guideline; satisfies Guideline requirement CORE CLASSIFICATION: [81-5] for a primary dermal irritation study.

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PRIMARY REVIEWER:

Jess Rowland, M.S, Toxicologist (

Section II, Toxicology Branch II

SECONDARY REVIEWER: K. Clark Swentzel, Section Head

Section II, Toxicology Branch II

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# DATA EVALUATION REPORT

STUDY TYPE:

Primary Dermal Irritation

GUIDELINE: 81-5

HED PROJECT No. 2-1863 Caswell Mo. 315 MRID No. 422327-01

TEST MATERIAL: 2,4-Dichlorophenoxyacetic acid

REGISTRANT: Industry Task Force II for 2,4-D Research Data

TESTING LABORATORY: The Toxicology Research Laboratory,

Dow Chemical Company, MI

STODY IDENTIFICATION: K-002372-060

TITLE OF REPORT:

2,4-Dichlorophenoxyacetic Acid: Primary Dermal Irritation Study in New Zealand White Rabbits.

AUTHOR: N.M. Berdasco

REPORT DATE: January 30, 1992

CONCLUSION: The dermal irritation potential of technical grade 2,4dichlorophenoxyacetic acid [96.7%], was evaluated in male and female New Zealand White rabbits. The test material was shown to be a non-irritant in the rabbit skin.

### TOXICITY CATEGORY: IV

CORE CLASSIFICATION: Guideline; satisfies Guideline requirement [81-5] for a primary dermal irritation study.

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### I. IMTRODUCTION

This Data Evaluation Report (DER) summarizes the experimental procedures and results of a primary dermal irritation study with 2,4-D Acid in rabbits.

### II. MATERIALS AND METHODS

# 1. Test Material

Common Name: 2,4-dichlorophenoxyacetic acid

Lot No. 909
Purity: 96.7%

Description: White powder

# 2. Test Animals

Species: Rabbits

Strain: New Zealand White Sex: Males and Females

Weight: 3.3 - 3.8 kg
Identification: Ear tags.

# 3. Animal Husbandry

Housing: 1/cage.

Food: Purina Certified Rabbit Chow #5322 ad libitum

Water: tap water <u>ad libitum</u>

Environment: "Adequate environmental conditions'

# 4. Treatment

A dose of 0.5 g of undiluted test material was applied to the intact skin of shaved backs [15 x 15 cm area] of three male and three female rabbits under a 4x4 cm gauze patch that was held in place with non-irritating adhesive tape. The gauze patch was moistened with 0.5 mL of distilled water to ensure sufficient skin contact and covered with a flannel bandage taped to the marginal hair of the rabbits. The wrapping and gauze patch were removed after a four-hour exposure period and the back was wiped with a damp disposable towel to remove any residual test substance. The application sites were examined and graded for erythema, edema, and necrosis within 30 minutes and 24, 48 and 72 hours after patch removal.

# 5. Quality Assurance

A quality assurance statement was signed and dated on January 30, 1992.

## III. RESULTS

None of the animals showed any signs of irritation during the observation period. The primary irritation score was 0. Thus, this material was not considered a primary irritant.

IV. COMCLUSION: The dermal irritation potential of 2,4-dichlorophenoxyacetic acid [96.7%] was evaluated in male and female New Zealand White rabbits. The test material was shown to be a non-irritant in the rabbit skin.

## TOXICITY CATEGORY: IV

V. CORE CLASSIFICATION: Guideline; satisfies Guideline requirement [81-5] for a primary dermal irritation study.

File Last Updated \_\_\_\_\_

Current Date 4/23/92

	STUBY/LAB/STUBY S/DATE	MATERIAL	EPA MRID NO.	RESULTS: LD50, LC50, P18, MOEL, LEL	TOK CATEBORY	CORE MARE/BOC. 8
	81-5 Primary Dormal Irr. Species: Rubbite K-002572-060 Dow;01/30/92	2,4-9 Acid Tech;96.7%	422327-01	0.5 g neet compound; non-irritant; PIS= 0	14	Suridetine IR
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